

Sub B3 46. A non-human transgenic mammal obtained by fertilization of an egg with the sperm cell of claim 44, wherein said egg is obtained from a female non-human mammal of the same species as said non-human transgenic mammal from which said sperm is obtained.

A3 47. A sperm cell obtained from a male non-human transgenic mammal, wherein said mammal comprises an isolated DNAC molecule, said DNAC molecule comprising a promoter P and an L1 cassette sequence comprising a core L1 retrotransposon element, wherein said core L1 retrotransposon element comprises a 5'UTR, ORF1, ORF2 comprising EN and RT domains, a 3'UTR, a poly A signal, and a vector sequence comprising at least one origin of DNA replication and a DNA sequence encoding at least one selectable marker protein.

48. The sperm cell of claim 47, wherein said non-human transgenic mammal is a mouse.

Sub B4 49. A non-human transgenic mammal obtained by fertilization of an egg with the sperm cell of claim 47, wherein said egg is obtained from a female non-human mammal of the same species as said non-human transgenic mammal from which said sperm is obtained.--

#### REMARKS

The present application is a divisional of U.S. Application No. 08/847,844, filed on April 28, 1997, now allowed.

The amendments made to the specification merely insert appropriate SEQ ID NOS as required. No new matter is added by way of these amendments.

Claims 1-33 have been canceled in the application and new claims 34-49 have been added, directed to a non-human transgenic mammal comprising an isolated DNAC molecule, wherein said DNAC molecule comprises a promoter P and an L1 cassette sequence comprising a core L1 retrotransposon element. Dependent claims include preferred embodiments which further define the isolated DNAC and components of the core retrotransposon element. In addition, the new claims include sperm cells obtained from the non-human transgenic mammal of the invention and progeny non-human transgenic mammals

obtained by fertilization of an egg with the sperm. Support for these new claims is found in the as-filed specification as follows:

- Non-human transgenic mammal – page 27 of the specification beginning at line 22, through page 28 of the specification, line 3 and page 37, lines 2 to page 38, line 26.
- The components of the isolated DNAC molecule are supported throughout the specification, particularly on pages 15-30 and in the Experimental Examples beginning on page 40 to page 78.
- Sperm obtained from non-human transgenic mammals is support in the specification on pages 27 and 28.
- Similarly, the generation of progeny transgenic mammals from the sperm is support in the specification on pages 27 and 28.

Applicants submit that new claims 34-49 are fully supported by the specification as filed and thus, no new matter has been added by way of the addition of these claims. Favorable examination of claims 34-49 is respectfully requested.

Respectfully submitted,

**Haig H. Kazazian, Jr. *et al.***

SEPTEMBER 1, 2000  
(Date)

By:

Kathryn Doyle  
**Kathryn Doyle, Ph.D., J.D.**

Registration No. 36,317

**AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P.**

One Commerce Square

2005 Market Street - Suite 2200

Philadelphia, PA 19103

Telephone: 215-965-1200

**Direct Dial: 215-965-1284**

Facsimile: 215-965-1210

E-Mail: [kdoyle@akingump.com](mailto:kdoyle@akingump.com)

[X] Customer Number or Bar Code Label: **000570**  
KD/moh

79698